

CLAIMS

1. Discharge device (1, 1a) for at least one medium (16, 16a, 17, 17a) with a media reservoir, a pumping device and a discharge opening (10, 10a), wherein the media reservoir has at least two media reservoir sections (4, 4a, 4b, 6, 6a, 6b) positioned rigidly with respect to one another and which pass into one another in their interior through a step shoulder (34, 34a, 34b).
2. Discharge device according to claim 1, wherein the step shoulder (34, 34a, 34b) has a sharp, circumferential edge (32, 32a, 32b).
3. Discharge device according to claim 1, wherein the media reservoir sections (4, 4a, 4b, 6, 6a, 6b) are formed by two separate hollow bodies, which are superimposed over a portion of their length and which are tightly interconnected in the superimposing area (31, 31a, 31b).
4. Discharge device according to claim 1, wherein at least one media reservoir section (4, 4a, 4b, 6, 6a, 6b) is made from a crystalline or amorphous material and has an almost smooth inner wall (24, 24a, 24b, 35, 35a, 35b).
5. Discharge device according to claim 3, wherein an outer contour of the inner hollow body (6, 6a, 6b) is at least stagewise matched to an inner contour of the outer hollow body (4, 4a, 4b).
6. Discharge device according to claim 3, wherein the at least two hollow bodies (4, 4a, 4b, 6, 6a, 6b) are integrally joined in the superimposing area (31, 31a, 31b).
7. Discharge device according to claim 5, wherein at least the superimposing area (31, 31a, 31b) of at least one hollow body (4, 4a, 4b, 6, 6a, 6b) is cylindrically shaped and in particular has a scarf joint.

8. Discharge device according to claim 1, wherein each media reservoir section (4, 4a, 4b, 6, 6a, 6b) has a chamber separate from the adjacent media reservoir section (4, 4a, 4b, 6, 6a, 6b) for in each case one medium (16, 16a, 17, 17a).
9. Discharge device according to claim 1, wherein in at least one sealing area (36, 36a) is provided on an inner wall (24, 24a, 24b) of a media reservoir section (4, 4a, 4b, 6, 6a, 6b) facing the media chambers a circumferential shape for receiving an at least stagewise spherical sealing element (3, 3a, 7, 7a, 8, 8a).
10. Discharge device according to claim 1, wherein concentrically arranged, cylindrical glass tube sections are provided as hollow bodies (4, 4a, 4b, 6, 6a, 6b) and which are in particular laser welded together in the superimposing area (31, 31a, 31b).
11. Discharge device according to claim 1, wherein at least one force-limited retention device (20, 39a, 40a, 41a) is provided on the pumping device and prevents a pump stroke below a clearly defined force level.
12. Discharge device according to claim 11, wherein force-limited retention devices (20, 39a, 40a, 41a) with different locking forces are provided for a clearly defined sequence of individual pump stroke steps.